Name:

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Thu,

**Geometry**

**Homework**



**Failure to show all work (mark up all diagrams and write out needed formulas) and/or write in complete sentences will result in LaSalle.**

***Quiz Tomorrow! Trapezoids & Kites & Rhombi  
+ formulas for area & perimeter of squares, rectangles, rhombi (using height and using diagonals), parallelograms, trapezoids, and kites. Make a plan to memorize these!***

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| 1. *WEST* is a kite. Find the measures of the missing angles.   a.  b. | 1. Use the Pythagorean Theorem to find the side lengths of the kite. Find the perimeter. |
| 1. If  measures 100 degrees, and measures 24 degrees, find the missing angles.   https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcS1nH0YB-ze7ICn4lNIugrPe_N2gmrhMeuisiooSHL69Nu8kHuBkA | 1. Find the perimeter AND area of the rhombus:   7    18  18  7 |
| 1. Find the area of the kite below. | 1. In the kite below, PQ = 5 cm, PS = 5 cm, QS = 6 cm, and TR = 12 cm. What is the area of the kite? |
| 1. A rhombus has diagonals of 18 ft and 80 ft. What is the area of the rhombus? | 1. Calculate the area of the trapezoid below: |
| 1. Find the midsegment of trapezoid PQRS: | 1. If PQRS in the problem to the left is an isosceles trapezoid with a side PQ of 10, find the area. *(Hint: the side is not the same as the height! Make a right triangle!)* |
| 1. A rhombus has a perimeter of 52 in. The length of the longer diagonal is 24 in. What is the area of the rhombus? (Hint: you need to find the diagonals!) | 1. In the kite below, PQ = 6 cm, PS = 6 cm, QS = 8 cm, and TR = 12 cm. If QS = 8, then TS = \_\_\_\_\_  Label all the given sides.     a) What is the perimeter of the kite? Show your work:  b) What is the area of the kite? Show your work: |